RPCM R&R NOD1D1

OBJECTIVE:

Remove a failed RPCM and replace it with a spare.

LOCATION:

Installed: NOD1D1 Stowed: √Maint DBbase

DURATION:

30 minutes (If Alcove Shear Panels have been removed).

PARTS:

RPCM-Int Type V (P/N R077419-31)

MATERIALS:

Wet Wipes Plastic Bags

TOOLS REQUIRED:

Equipment Bag

Tethers

Kit E:

Ratchet 3/8" Drive 6" Ext 3/8" Drive

Driver Handle 1/4" Drive

Kit D:

5/32" Hex Head Driver, 1/4" Drive

EVA Kit:

7/16" x 6" Wobble Socket Extension, 3/8" Drive

Kit G:

(5-35 in-lbs) Trq Driver (30-200 in-lbs) Trq Wrench

REFERENCED PROCEDURE(S):

RPCM SAFE FOR MAINTENANCE NODE 1 ALCOVE DECK SHEAR PANEL REMOVAL ACTIVATE RPCM

SAFE

WARNING

Failure to remove power can result in electrical shock hazard.

- 1. Don Anti-Static wrist tether.
- 2. Perform RPCM SAFE FOR MAINTENANCE procedure.

ACCESS

- 3. Remove, tmpry stow Alcove Deck Closeout Panel, fasteners (ten) (Handle 1/4" Drive, 5/32" Hex Head Driver).
- 4. If Alcove Deck Shear Panels have not been removed Perform NODE1 ALCOVE DECK SHEAR PANEL REMOVAL procedure.
 - If Alcove Deck Shear Panels have been removed Go to step 5.

REMOVE

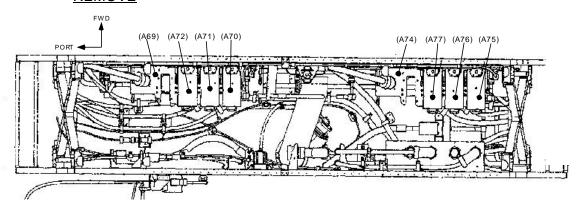


Figure 1.- Nadir View of Node 1 Alcove Deck (with Closeout and Shear Panel Removed).

Table 1. Node 1 Alcove Deck RPDA/RPCM Identification.

Name	Ref. Designator	RPCM Type
RPDA N1-RS2	(A74)	N/A
RPCM N1-RS2-A	(A75)	V
RPCM N1-RS2-B	(A76)	V
RPCM N1-RS2-C	(A77)	V
RPDA N1-3B	(A69)	N/A
RPCM N1-3B-A	(A70)	V
RPCM N1-3B-B	(A71)	V
RPCM N1-3B-C	(A72)	V

Locate failed RPCM.See Table 1 and Figure 1.

CAUTION

Failure to fully seat 7/16" x 6" Wobble Socket Extension, apply constant pressure on drive screw could result in damage to RPCM locking mechanisms.

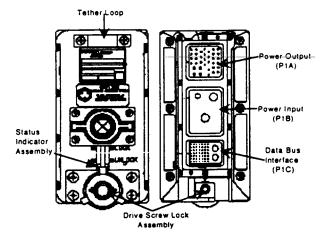


Figure 2.- Remote Power Control Module (Front and Back).

- 6. Apply pressure, loosen failed RPCM drive screw (Ratchet 3/8" Drive, 7/16" x 6" Wobble Socket Ext).
- 7. √Status indi Unlock
- 8. Label, remove failed RPCM from receptacle by sliding it off guide rails.
- 9. Verify replacement RPCM part number RPCM-Int Type V (P/N R077419-31).
- Remove electrical connector protective caps (two) from replacement RPCM to failed RPCM.
 Tmpry stow failed RPCM.

REPLACE

- 11. Inspect RPCM and mounting location for foreign matter/debris, damage to alignment guides, pins.
- 12. Clean coldplate bonding surface with Wet Wipes.

CAUTION

All internal RPCMs have the same physical characteristics. Forcing incorrect spare RPCM into receptacle could bend RPCM connector pins.

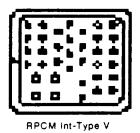


Figure 3.- RPCM Power Out Connector (Node 1).

- 13. Verify replacement RPCM Power Out connectors pins. See Figure 3.
- 14. Position replacement RPCM on guide rails of RPDA.
- 15. Insert RPCM into RPCM receptacle until status indicator reaches Unlock position.

CAUTION

Failure to fully seat 7/16" x 6" Wobble Socket Extension, apply constant pressure on drive screw could result in damage to RPCM locking mechanisms.

- 16. Apply pressure, tighten RPCM drive screw, torque to 60 ± 6 in-lbs (Ratchet, 3/8" Drive, 7/16" x 6" Wobble Socket Ext, (30-200 in-lbs)Trq Wrench).
- 17. √Status indi Lock

CHECK-OUT

18. Perform ACTIVATE RPCM procedure.

CLOSE-OUT

19. Install nadir Closeout Panel, fasteners (ten) torque to 14 ± 2 in-lbs (Handle 1/4" Drive, 5/32" Hex Head Driver, (5-35 in-lbs) Trq Driver).

POST MAINTENANCE

- 20. Stow failed RPCM, tools, equipment.
- 21. Update Maint DBase.